

TALON™

HIGH-PERFORMANCE AIRBORNE MULTI-SENSOR
THERMAL IMAGING SYSTEM IN A COMPACT, LIGHT-
WEIGHT 9" PACKAGE



APPLICATIONS

SURVEILLANCE
RECONNAISSANCE
TARGET ACQUISITION & TRACKING
FORCE PROTECTION
SEARCH AND RESCUE (SAR)
PURSUIT AND PATROL
DRUG INTERDICTION
MINE DETECTION
ENVIRONMENTAL MONITORING

FEATURES

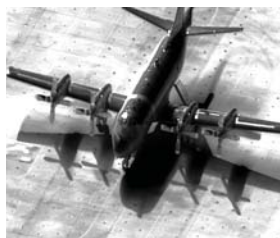
Compact, multi-sensor system
State-of-the-Art imaging
Low Light
Embedded IMU/GPS and LRF
Laser Pointer/Illuminator
Analog and Digital Video Interfaces
Multi-target autotracker
Advanced fiber optic gyro stabilization
Military hardened and qualified

BENEFITS

Up to six **SIMULTANEOUS** payloads in a 9" package: IR, Color CCD, low light, Laser Pointer or Laser Illuminator, LRF, IMU
Continuous zoom 640 x 480 infrared camera and two EO options (color and color/low light combination) deliver high-resolution imagery day or night
Extreme low light capability in sub-quarter moon conditions. Works in **ZERO** ambient light conditions in conjunction with laser illuminator
Supports high accuracy range to target, target geolocation and GeoLock™ capability. Also works with platform GPS/INS/EGS/AHARS Systems for higher accuracy solutions
Identifies targets for observers using NV devices while remaining invisible to others. The illuminator also augments performance in low light conditions
TALON provides NTSC or PAL analog video and SMPTE 292M and DVI digital video for all channels, maximizing resolution and range performance
Advanced capability that tracks targets or scenes with all imagers (IR, CCD, low light)
Outstanding gimbal stability maximizes EO and IR sensor range performance
TALON configurations delivered to multiple military programs. Proven quality, reliability and performance in the most demanding military environments



CCD-TV camera



IR camera





TALON™

THERMAL IMAGER

Detector type	Indium Antimonide Focal Plane Array
Zoom ratio	10x continuous, 18x overall (all optical)
Image resolution	640 h x 480 v

DAYLIGHT/COLOR CCD TV – EO OPTION #1

Performance	Long Range using FLIR-designed optics with maximized focal lengths
Zoom	25x continuous zoom

COMBINATION COLOR CCD/LOW LIGHT TV – EO OPTION #2

Performance	Long Range extreme low light capability using FLIR-designed optics. Zero ambient light capability when used in conjunction with the laser illuminator
Zoom	10x continuous zoom Color CCD 10x continuous zoom low light

EYESAFE LASER RANGEFINDER

Laser type	Class 1 (eyesafe)
Max. range	20 km

LASER POINTER

Nominal wavelength	830 nm
Power	135 mW nominal
Classification	Class 3b (per IEC 60825 & U.S. 21 CFR Part 1040)

LASER ILLUMINATOR

Nominal wavelength	830 nm
Power	1.9 W
Classification	Class 4 (per ANSI Z136.1-2000)

TURRET SENSOR UNIT (TSU)

Gimbal range of motion	360° AZ, 360° EL Continuous
Slew rate	0° to 140° /sec

CONTROL ELECTRONICS UNIT (CEU)

Interfaces	Mil-Std 1553, ARINC 429, RS-232 RS-422, Analog and Digital Video Output (SMPTE). All interfaces also available in single LRU configuration.
Power	18-32 VDC

MULTIPLE ERGONOMIC, RUGGEDIZED CONTROL UNIT OPTIONS

NVIS compatible
Fully sealed design



GEOLOCK™

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. ©2012 FLIR Systems, Inc. Specifications are subject to change. Check website: www.flir.com/GS_01302012



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